

Minutes of the Annual Meeting of the EWRI Technical Committee on Hydraulic Measurements and Experimentation (TCHME)

August 27, 2001, 8:00 a.m. to 12:00 p.m.
US Bureau of Reclamation, Technical Service Center
Denver, Colorado

Attended by: Kevin Oberg, U.S. Geological Survey, **Chair**
Edwin (Todd) Cowen, Cornell University, Minutes **Vice Chair**
Tracy Vermeyen, U.S. Bureau of Reclamation, **Secretary**
Tatsuaki Nakato, IIHR, University of Iowa, **Control Member**
Cliff Pugh, U.S. Bureau of Reclamation, **Control Member**
Warren Frizell, U.S. Bureau of Reclamation, **Control Member**
John Replogle, U.S. Water Conservation Lab, ARS-USDA, **Control Member**
Marion Muste, IIHR, **IAHR Representative**
Tony Wahl, U.S. Bureau of Reclamation, **Guest**

1. Welcome and Introductions

Kevin Oberg opened the meeting at 8:00 a.m. and he welcomed all attendees.

2. Committee Membership

The TC (Technical Committee) accepted the agenda and proceeded to review the current committee membership status. Kevin Oberg presented three applicants to the committee for membership. They are:

Dr. David Zhu from the University of Alberta, Canada
Dr. Matahel Ansar from South Florida Water Management District
Dr. Chris Rehmann from the University of Illinois at Urbana-Champaign

The committee members reviewed the qualifications of all three candidates and unanimously approved their membership to the Technical Committee on Hydraulic Measurements and Experimentation (TCHME).

Action Item.1: Kevin Oberg will notify each of the above of their acceptance and ask for their involvement in various TCHME and Task Committee activities.

Committee Officers - The following officers were selected for the coming year.

- Chair Tatsuaki Nakato
- Vice-chair Tracy Vermeyen
- Secretary John Replogle

These changes will be effective October 1, 2001.

Kevin Oberg reported that Jack Huntamer will not continue as a committee member and Warren Frizell reported that Greg Gartrell is no longer an active committee member.

The committee also discussed the term length for the new officers and decided that the officers will be reviewed each year and their appointments could be extended for a second year by committee vote. John Replogle committed to being Secretary for a one year term only.

3. Task Committee Updates

3.1 The Task Committee on Experimental Uncertainty and Measurement Errors in Hydraulic Engineering:

- Kevin Oberg briefed TCHME on the latest update received from John Walker. Task Committee met at Spring AGU. Have not received an update since then.
- Cliff Pugh suggested that Tony Wahl may be a good addition to this committee.

Action Item.2 Tracy Vermeyen agreed to ask Tony Wahl if he is interested in joining this task committee.

Action Item.3 Kevin Oberg will ask John Walker if he would consider becoming a member of the TCHME. The committee felt that this would help bring about better communication.

Action Item.4 Kevin Oberg will ask if any of the new committee members have an interest in helping with this task committee.

3.2 Task Committee on New Developments in Velocity and Discharge Measurements:

- Most of this committee's work is done. We have talked about hosting training classes, but the incentives are not great. If there were a greater incentive - this may become viable.
- The committee would like to put together a publication (on-line, CD, or ?) of papers from Estes Park conference.

4. IAHR Liaison report - Marian Muste gave a briefing on IAHR activities relative to the following topics:

Development of an instrumentation database. Muste provided a sample of IAHR's instrumentation database.

Recommendations from IAHR Council members Forest Holly and Jean Cunge and encouraged by ASCE: Develop a manual on experimental methods and instrumentation (it's

too ambitious, but a topic as ADCP might work)

Document standardized procedures for field measurements using ADCPs

Development of non-contact instrumentation for river monitoring

Development of non-intrusive sediment instrumentation

Implementation of uncertainty analysis in hydraulic measurements

Web site cooperation: common topics for the web site include:

Scientific meeting announcements

Books

Instrumentation

Marian Muste has made progress in this area and provided a document of instrumentation contacts which include many European and Asian vendors. This document was developed as part of his IAHR instrumentation committee activities. A copy of this vendor list will be mailed to the committee members so additional vendor information can be included.

5. Review of Previous Action Items:

TCHME reviewed Action Items from previous meeting (August 1, 2000).

Action Item. 5 Todd Cowen will followup with Steve Harris of EWRI Publications Committee on issues relating to publishing papers from Minneapolis (and other conferences) or parts of papers on the TCHME Web pages.

- Discussed the current Web pages and ways to make them more useful. It was suggested that we really need to have a few people sit down together and work on both content and organization. Warren has solicited suggestions for content but has received little. As a result of our discussion, we agreed to form a task committee to deal with developing a useful set of Web pages - not only for the TCHME but also for practicing engineers and academics. Warren agreed to serve, along with Marian Muste. We also drafted Chris Rehmann to assist.

Action Item. 6 Warren will prepare the task committee proposal and will propose a meeting - perhaps in conjunction with one of our 2002 conference planning sessions.

Action Item. 7 TCHME members should send Warren links and ideas for web page content.

6. Task Committee Updates

Kevin Oberg suggested surface velocity measurements and non-contact task committee for the committee's consideration. The TC agreed that this is a good topic for the 2002 conference.

The TC also discussed hosting specific workshops/experts meeting on acoustic measurement techniques. The question concerning who will teach this coursework remained unanswered. Todd Cowen asked what type of incentives were available to entice instructors? Kevin mentioned that RDI is interested in helping and Sontek would likely follow suit. An introductory level of training is the target. Todd asked if this is an appropriate task this TC should tackle? No one had an answer for this question. Who will take on this task? An academic? Vendor? USGS employee?

7. Review of New Action Items

The main focus of the TCHME's future activities will be preparing for the upcoming conference "*Hydraulic Measurements and Experimental Methods, 2002*," A Joint Conference of ASCE/EWRI and IAHR to be held July 28- August 1, 2002 in Estes Park, Colorado. The TC members reviewed the new action items and Oberg adjourned the meeting at 11:30 a.m.